Unit 1: Scratch program

Question 1: Put a tick (✓) before the right phrases and (×) before the wrong ones:

1- Scratch software programming language which is simple and it's a graphical language. ( )

2- Scratch software features interface is available in English only. ( )

3- Scratch program designed specifically to teach programming in a Visual and logical steps. ( )

4- Scratch program used to design games and interactive stories and animated. ( )

5- You cannot add sound effects to your own projects. ( )

6- Scratch program is not free software we cannot accessed from the Internet. ( )

7- You can't change the size of the platform Stage to full screen. ( )

8- You can deal with Scratch program, through the Internet only. ( )

9- Scratch program is not fully Supports Arabic language. ( )

10- Scratch can run on Linux operating systems only. ( )

11- Stage area (it appears as a result of work or project). ( )

12- You can change where the Sprite on the stage by clicking on it (drag and drop). ( )

13- You can locate a sprite left the stage with the value of (x, y) values (-220, 0) where the value of Y = 220, X = 0. ( )

14- Code blocks is collections of blocks that are install in Scripts Area in a particular order. ( )

15- When installing commands, white line down to clarify the place of snapping. ( )

16- The Event When Clicked block from Looks Blocks. ( )

17- Motion Blocks contains Blocks (commands) used in the movement of sprites or the rotate or identify directions on the stage. ( )

18- Events contains Blocks used to determine event which is located (or events) on sprites to start implementation of the project. ( )

19- Looks contain Blocks using control patterns and shapes of sprites and colors. ( )

20- Not different between Scratch program and other conventional programming languages. ( )

Question 2: Choose the correct answer between brackets:

1- **(Stage – Sprite – Script - Backdrop)** area appears as a result of work or project.

2- Through **(Stage – Sprite – Script - Backdrop)** area, you can add different backgrounds to stage.

3- **(Stage Area – Sprites Area – Script Area - Backdrop)** contain sprites used by the project.

4- **(Scripts – Blocks – Motion - Control)** is a different sets of Blocks (graphical commands for each group), which are used in sections.

5- **(Scripts – Blocks – Motion - Control)** is a different set of Blocks.

6- **(Sprite – stage coordinates – Scripts - Code blocks)** is the collections of blocks that are install in Scripts Area in a particular order (as install game Puzzles).

7- **(Scripts – Blocks – Motion - Control)** contains Blocks (commands) used in the movement of sprites or the rotate or identify directions on the stage.

8- **(Scripts – Looks – Motion – When Clicked)** block from Event Blocks, to install in the top section of code blocks.

Question 3: Write the scientific term:

1- Software features interface is available in English and Arabic, used to design games and interactive stories and animated.

2- Area appears as a result of work or project.

3- Contain sprites used by the project.

4- The collections of blocks that are install in Scripts Area in a particular order (as install game Puzzles).

5- Contains Blocks (commands) used in the movement of sprites or the rotate or identify directions on the stage.

6- Contains Blocks used to determine event which is located (or events) on sprites to start implementation of the project.

7- Contain Blocks using control patterns and shapes of sprites and colors.

Question 4: Choose words from word list to fill in blanks:

Code block – Sprites Area – Motion – Control – Stage

1- …………………………….. is the collections of blocks that are install in Scripts Area in a particular order (as install game Puzzles).

2- ……………………area appears as a result of work or project.

3- You can view information about Sprite, through information symbol in the…………………

4- You can use the Wait command from……………………..Blocks.

Question 5: Write the scientific term:

1- The collections of blocks that are install in Scripts Area in a particular order.

2- The code sections gather, "installing a set of drawing commands in a specific order.

3- Is the element to be manipulated and effects added.

Question 6: Put a tick (✓) before the right phrases and (×) before the wrong ones:

1- The code sections gather, "installing a set of drawing commands in a specific order in stage area. (   )

2- The command (Say) exists in Control blocks. (   )

3- You can't control the rotation of the Sprite on the stage. (   )

4- You can add different backgrounds to the Stage. (   )

5- Through the direction command in the sprite information, you can change sprite direction. (   )

6- You can use the Repeat commands from control Blocks. (   )

7- When using the Repeat command, you can't control the number of implement the command. ( )

8- The Duplicate command used to repeat the code block. (   )

9- In the Scratch program, you can't repeat a command more than 5 times. (   )

10- To save the project, choose Save Or Save as from Edit menu. (   )

Question 7: Choose words from word list to fill in blanks:

Code block – Menu bar – Motion – Events – Show

1- You can use the Clicked Event from……………………………..blocks.

2- The command (Go to) exists in ……………………… blocks.

3- ………..…..choice in the sprite information window used to Show or hide sprite from the stage.

4- To view the implementation of the project, use Event Blocks in the top of…………………… .

5- You can change the interface language of Scratch program to Arabic from symbol in …………

Question 8: Choose words from word list to fill in blanks:

toolbar – Open – Undelete – File – Forever – Edit

1- To open existing file select……………………command from File menu.

2- You can maximize, minimize sprites on the stage using………………………..

3- …………………....used to undo delete sprite or block.

4- To change the Stage to small layout choose Small Stage Layout from…………………….menu.

5- …………….………….used to repeat block infinite times.

Question 9: Correct the underline words:

1- The (Change Y) block from **Event** Block and deal with the vertical axis.

2- The **Forever** block used to repeat command a number of times.

3- The command **Save As** used to save modifications on existing project.

4- **Undo** command from Edit menu used to undo deleting the sprite.

5- When using the **Paint Your Own Sprite**, you can add sprite from program library.

Question 10: Put a tick (✓) before the right phrases and (×) before the wrong ones:

1- The Repeat block used to repeat a command number of times. ( )

2- The Forever block used to repeat command infinite times. ( )

3- The value of wait Block in the Wait (1) block one second, you can't change it. ( )

4- The value of repeat in the Repeat (10) block is 10 times, you can change it. ( )

5- To save project, from Edit menu, choose Save As. ( )

6- The Scratch file name extension takes .sb2. ( )

7- You can add new sprite from tool bar. ( )

8- Sprite library window appears where large groups of sprites are divided into different categories. ( )

9- To create new file, from File menu, select New. ( )

10- You can handle and control sprites on the stage maximize, minimize using the control toolbar choices. ( )

11- You can doubling the number of sprite, by choosing Duplicate from the drop-down list. ( )

12- You can delete any sprite, by choosing Duplicate from the drop-down list. ( )

13- Delete the sprite from the sprite area, it is also deleted from the stage. ( )

14- To Undo Delete sprite choose delete. ( )

15- A program file (Scratch) that works on any computer with a video program. ( )

16- You can't control the number of implement a specific command with scratch program. ( )

17- The (Info) command used to display information about sprite. ( )

18- You can't use Control Blocks to repeat work for order or repetitions of a set of commands within the Scripts tab. ( )

19- You can choose Maximize and minimize sprite block from drop down list. ( )

Question 11: Choose the correct answer between brackets:

1- You can use ……………………………………to repeat work within the Scripts tab.

(Looks Blocks – Motion Blocks – Control Blocks)

2- To Repeat a command a number of times, choose……………block.

(Repeat – Forever – Control)

3- To Repeat command infinite times, choose…………………block.

(Repeat – Forever – Control)

4- To Save the file choose……………from File menu.

(Cut – Copy – Save as)

5- The Scratch file name takes…………………extension.

(Txt – Php – Sb2)

6- You can doubling the number of sprite, by choosing……………………..from the drop-down list.

(Delete – Duplicate – Save as)

7- You can delete sprite, by choosing……………………..from the drop-down list.

(Delete – Duplicate – Save as)

Question 12: Put a tick (✓) before the right phrases and (×) before the wrong ones:

1- Tabs tool from the important scratch program interface contents. ( )

2- Sprite tab deal with Blocks Area "command sets area". ( )

3- Sound tab handle playback and recording sounds. ( )

4- Costumes/or Backdrop tab dealing with aspects of Sprites/or background stage and adjustment. ( )

5- When you press tab in both cases Costumes you can use drawing tools and colors available and drawing. ( )

6- You can't choose a photo as the background of the Stage for your project. ( )

7- When you activate the background Stage, Backdrops not appears.

8- When you press the flip right left selection (edit toolbar) reflected the background image horizontally like a mirror. ( )

9- When you press the flip down up check the background image reflected vertically. ( )

10- Appearances intended Sprites are different forms of the same Sprite. ( )

11- You can identify the aspects of the active Sprite when pressing tab Costumes. ( )

12- Each Sprite can have more than one form. ( )

13- You can switch between the different forms of the sprite by using next costume command. ( )

14- When implementing code blocks after you add the bounce command, flops when the sprite reaches the edge of the stage but inverted orientation (vertical). ( )

Question 13: Write the scientific term:

1- Is the image covering (or add) the Stage, be behind Sprites to add to the project aesthetic form.

2- When you press the flip right left selection (edit toolbar) reflected the background image horizontally like a mirror.

3- When you press the flip down up check the background image reflected vertically.

4- Sound tab handle playback and recording sounds.

5- Block used to stop the project.

6- Tab use drawing tools and colors available for modification and graphic in the background of the stage.

7- Tab used to add new appearance to the sprite.

8- Block used to control the appearance of the sprite.

Question 14: Put a tick (✓) before the right phrases and (×) before the wrong ones:

1- Color is associated with Change block. ( )

2- The current appearance of sprite static can't be changed. ( )

3- When you activate the Sprite Costumes tab appears instead of backdrop tab. ( )

4- You can repeat a code block so that it does not exceed 30 times. ( )

5- The Think for ….Second used to display message in the form of "thought" style and then disappear. ( )

Question 15: Put a tick (✓) before the right phrases and (✗) before the wrong ones:

1- To display Pen Blocks click on Pen on the Scripts tab. ( )

2- You can't draw any forms using Scratch program. ( )

3- You can't add Sound Blocks through Scratch program. ( )

4- You can clear any lines and graphics on the stage. ( )

5- There are multiple appearance to all sprites. ( )

6- Order of blocks or commands not affected to achieve the desired effect. ( )

7- You can't control the direction the sprite rotation pattern. ( )

Question 16: Write the scientific term:

1- Option from Backdrops, check the background image is reflected vertically.

2- Command used to lack of the sprite from the stage and make it backfires when the edge of the stage.

3- Command used to switch between the different forms of the sprite.

4- Command used to display a message does not disappear.

5- Command used with it, color and whirl.

Question 17: Choose words from word list to fill in blanks:

Play sound – Degrees – Turn – Pen Down – Clear – Repeat

1- ……………………….command used for the sprite's rotation angle.

2- ……………………….command used to clear any lines and graphics on the stage.

3- To repeat the sprite movement, used Move command with……………………….command.

4- ………………………..command from Sound Block, used to play sound.

5- Pen Up command used to Lift the pen moves the sprite without drawing and the ……………………..……command used to Put the pen sprite movement draw a line.

Question 18: Complete the following sentences:

1- From the Pen block commands……………….……. , …………………….. , …………………

2- To change the sprite's rotation angle to (45) used……………………..………….command.

Question 19: Write the scientific term:

1- Blocks used to makes sprite draws lines and painted during his movement.

2- Blocks used to add and record sound files.

3- Command used to Lift the pen moves the sprite without drawing.

4- Command used to repeat drawing a line (5) times.

5- Tool contains the Sound tab.

Question 20: Put a tick (✓) before the right phrases and (✗) before the wrong ones:

1- You can makes sprite draws lines during his movement but you can't control line color. (   )

2- Clear command used to clear any lines and graphics on the stage. (   )

3- Pen Up command put the pen sprite movement draw a line. (   )

4- Scratch program contains a limited number of sound files. (   )

5- The (Set Pen Size to) can't be increased to (3). (   )

Question 21: complete following table with the suitable command:

A	B
	Add and play sound file.
	used for the sprite's rotation angle.
	used to clear any lines and graphics on the stage.
	Used to assign the pen color.
	Put the pen sprite movement draw a line

Question 22: Complete the following sentences:

1- ………………………………………… is used in many games projects to reach the desired result, and achieved the desired goal.
2- ……………………… help you to use as a condition or restriction to achieve a certain result of the project.
3- You can use Calculations and use computational transactions Arithmetic Operators from ………………. Blocks.
4- You can use Special operations and use them Boolean Operators from ………………. Blocks.
5- We Used conditional control command from the ……………..block.

Question 23: Put a tick (✓) before the right phrases and (✗) before the wrong ones:

1- Sprite touching another One is one of the events used in code to achieve a specific goal upon the occurrence of an event. ( )

2- Sprite touching a particular color is one of the events used in code to achieve a specific goal upon the occurrence of an event. ( )

3- Pressing any key of the keyboard is one of the events used in code to achieve a specific goal upon the occurrence of an event. ( )

4- Sensing events help you to linking the implementation of programmatic Orders section by pressing a key on a keyboard keys. ( )

5- Motion events help you to linking the implementation of programmatic Orders section by clicking on the mouse. ( )

6- Sensing events help you to linking the implementation of programmatic Orders section by the movement of your sprite. ( )

7- You can use Sensing events alone. ( )

8- Conditional IF control command used in the implementation section according to a particular condition code. ( )

Unit 2: The Internet

BASIC CONCEPTS OF THE INTERNET

Question1: Complete the following sentences:

1- ………………is a network which is composed of a group of connected networks.

2- The requirements to connect to the internet………………… , …………….. , …………….

3- ISP refers to ………………………………………………..

4- The most known browsers are…………………. , …………………….. , ……………………

5- Computer sets are the same on the internet; they need certain rules for communication, which is called a ………………………….

6- …………… send and receive data on the internet; each of them has a certain job.

7- …………………………is a webpage or more, connected to each other with a certain name. They are stored on the web server.

8- The website has an address on the internet known as ………………………………….

9- The website can be visited through a …………………… or …………………..

10- URL refers to…………………………………….

11- …………………………is an image or text , connected to a URL , when clicking it, you go to the URL .It can be in the same page or on another page or even another site.

12- …………………………is the process of transmitting or copying files or programs through the internet to the computer (these programs can be used offline)

13- …………………………means to transmit a file or a program from your computer to another on the internet.

Question2: What we meant by:

Internet – hyperlink - Internet Service provider – Protocol – Website

Some Internet Services

Question3: Complete the following sentences:

1- ……………………… are considered the most sites visited, as millions of users use them to reach the URLs containing the information they need.

2- ……………………… provide the best browsers which are the shortest and easiest way to reach information needed. You can search for websites, text files, images, groups, news, books.

3- ……………………… is one of the most famous search engines as it contains millions of websites covering nearly all topics.

4- Google address is……………………………………

5- Bing URL is…………………………………………

6- ………………………. is the abbreviation of worldwide web.

7- ………………………..means of getting information. It consists of web pages written in HTML language and shown by a certain program called Browser.

8- The URL of Egyptian Knowledge Bank is…………………………………

Question4: Mention the Internet services:

a) …………………………………..

b) …………………………………..

BASIC CONCEPTS OF CLOUD COMPUTING

Question5: Complete the following sentences:

1- ……………… is the technology that depends on transfer processing and storage of a computer to what is known as (Cloud).

2- ………………..which is a server or SERVERS, that can be reached through the internet, to make programs and applications available.

3- …………………………………… is like a service of web hosting but with more availabilities. It allows the users and developers to use all the available sources efficiently, because of course the existence of users and developers on the server will be longer and this needs more sufficiency.

4- Email service , like ...., ... , ...

5- .... which is storage capacity provided by the service providers like Google Drive which provided by Google, and One drive provided by Microsoft.

6- Cloud Music like …………………….., ……………….. , ………………..

7- ……………………………… which are provided in the form of services to cloud computing users like Google Docs, Photoshop Express.

Question6: What are the requirements to login cloud computing?

a) ……………………………….

b) ……………………………….

c) ……………………………….

d) ……………………………….

e) ……………………………….

Question7: What are the services provided by cloud computing?

a) ……………………………..

b) ……………………………..

c) ……………………………..

d) ……………………………..

Question8: What are obstacles and challenges (disadvantages) of cloud computing?

a) ……………………………..

b) ……………………………..

c) ……………………………..

d) ……………………………..

e) ……………………………..

Question9: Complete the following with one word from the list:

Cloud applications – cloud computing – cloud storage - Google – Cloud – Cloud music

1. ……………..is an advanced technology that depends on transferring processing and storage capacity to what is known as Cloud.

2. ………………….. , ……………. , ……………. are some of the cloud computing services.

3. The ability of connecting different electronic sites is ……………………………..

Question10: Put (√) or (X) in front of the following statements:

1- Any computer, laptop, I-pad, Mobile phone or any set can log in and reach the cloud. ( )

2. iCloud , Google Music are email services. ( )

3. Providing internet connection is not of the requirements to use cloud computing. ( )

CLOUD COMPUTNG SERVICES

Question11: Complete the following sentences:

1- To use Google Drive or Microsoft Office 365 , you must have an …………….. account .

2- You can select Gmail or ………………..from Google Apps.

3- To share a document in drive allowed email should be on ……………….

4- To use Microsoft Office 365 service, you have to …………………..

5- To create a document using Google Docs, click………and select ……… from the drop list.

Question12: Choose the correct answer:

1- To share a document with your colleagues, click (Share-Copy- Cut–Paste)

2- To create a new account on Google Drive, select (sign in-Copy account-Delete account-Create account)

3- To create an email account on Gmail, open the internet browser and write Google in the (tool bar – address bar – menu bar – all of them)

Question13: Put (√) or (X) in front of the following statements:

1. To use the Google Drive services, you have to get an email account using the cloud computing.( )

2. To create an email account on Gmail, click Google apps and select Drive. ( )

3. The allowed account to share document with by using Google Drive must be on Google. ( )

4. You can save a document you created by using Google Drive service. ( )

INTERNET SAFETY

Question 14: Put a tick (✓) after the right phrases and (✘) after the wrong ones:

1- Contempt is adding rude comment in a chat online. ( )

2- Phishing is a small malicious program that has the ability to infect computers. ( )

3- Avoid continue to sit for a long time mode, and take a break from the correct seating in front of the computer. ( )

4- Placing the handset between the shoulder and head from the correct seating in front of computer. ( )

5- From the correct seating in front of the computer maintain a distance of 45-70cm from the screen. ( )

6- While sitting in front of the computer, the head is on one straightness with the back column in normal position. ( )

7- While sitting in front of the computer, the screen should positioned at the nose level. ( )

8- Select the suitable light source and position, while sitting in front of the computer. ( )

9- The chair and device level should not be proportional. ( )

10- Leave a distance of about one meter between you and the computer. ( )

11- The user's body must move away from the office as wide as possible. ( )

12- It is helpful to put a wooden base on the desk to help not bend the neck. ( )

13- You should not drink drinks while working on your computer for a long time. ( )

14- For non-impact joints, sit properly and move the neck randomly every 20 minutes. ( )

15- A happy Slapping in which more than one person is against the victim. ( )

Question 15: Complete the following sentences:

1- ………………………………….. is pretending to be an official body to get personal and financial information about others.

2- …………………………….. are the undesirable messages that come from different places with advertisement or news that may contain a virus or harmful material.

3- Avoid exposing the neck to the ……..………………… and try to avoid sudden changes to the atmosphere as the transition from hot air to cool air conditioning.

4- ………………….…… is the wrong way of expression in chat rooms or messaging or even SMS either on the internet or the phone.

5- It is recommended to close the screen between working hours for ……….. minutes every hour in front of the device.

Question 16: Write the scientific term:

1- They are the undesirable messages that come from different places with advertisement or news that may contain a virus or harmful material.

2- It is pretending to be an official body to get personal and financial information about others.

3- It is the wrong way of expression in chat rooms or messaging or even SMS either on the internet or the phone.

4- It is the attack of a victim while not paying attention. The partner takes a photo by the mobile phone or digital camera on the computer, then publishing the photo.

5- It is the software or hardware that prevents unlicensed people from surfing certain illegal or impolite sites.

6- It is adding rude comment in a chat online.

Question 17: Choose the correct answer between brackets:

1- The two agreed to photograph their friend without his knowledge in an embarrassing situation for him and they posted an online this representing

(Contempt – Happy Slapping – Phishing)

2- Your e-mail message will inform you of the profit of the financial amount and request to send some data and financial amount administrative expenses to receive the award this represents

(Contempt – Spam – Phishing)

3- To prevents unlicensed people from surfing certain illegal or impolite sites we used

(Firewall – Spam – Contempt)

4- If someone talks to you in an impolite or moral way, that is considered

(Firewall – Spam – Cyber bullying)

5- Keep away from the screen with a minimum distance of …………. cm and use a screen with good specifications.

(10 – 30 – 50 – 70)

6- While sitting in front of the computer screens around your eyes about the device every …………. minutes for 10 seconds.

(10 – 30 – 50 – 70)

Question 18: What we meant by the following terms:

1- Cyber Bullying

2- Contempt

3- Spam

4- Happy Slapping

5- Firewall